Scott. H-48—53,702—27-11-48.

P-9=E

PW (1921) Department.

Mis SERIES.

G.O. No. 1195 W

DATED 20.10.24

[Despatch Abstract.]

G.F. 21.

Public Works **DEPARTMENT.**

In future letters, please quote No. dated and short title *	*Rec'd*..... *Enclosures*..... *Reg'd*..... *Spare copies*.....	Telephone No. Post Box No. Telegraphic Address.

No. 420.S. Dated 28 August 1924

From (Name) J.S. Westerdale, Esq., B.Sc.,M.Inst.C.E.,
(Designation) Sanitary Engineer to Government,
(Address) Chepauk, Madras.

To The CHIEF ENGINEER,
Public Works Department,
Madras.

Sir,

BELLARY WATER SUPPLY SCHEME.

With reference to P.W.D. Memorandum No.1281-Wks-24 C.P. dated 23rd June 1924 approving the proposal of the undersigned to use gas plant for the Bellary Water Supply Scheme in place of the steam plant provided in the sanctioned estimate, I have the honour to forward herewith the design for the engine house suitable to accommodate gas plant with an estimate amounting to Rs.34,000/- in lieu of Rs.32,600/- provided in the sanctioned estimate, for necessary approval and sanction. The apparent excess is due to the inclusion of the Venturi meter and meter house which is covered by a separate estimate of Rs.8,697/- in the sanctioned estimate.

2. Plans and estimates for constructing quarters for the pumping station staff from the savings effected by the use of gas plant may, it is suggested, be prepared by the Executive Engineer in charge of the work to suit the local type

type of building constructio

I have the honour to be,

Sir,

Your most obedient servant,

J.S. Westerdale
26/8/24.

DSR/26-8-24). Sanitary Engineer to Govt.

Enclos:-

Blue print....1)
Estimate.....1) 2)

G.F. 21.

Public Works DEPARTMENT.

Special

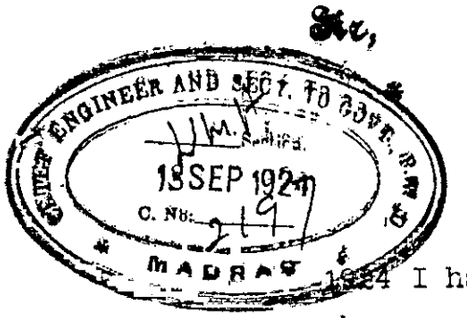
In future letters, please quote No. dated and short title *	Rec'd ..... Enclosures ..... Reg'd ..... Spare copies	Telephone No. Post Box No. Telegraphic Address:

No. 442 G. Dated 13th September 1924

From (Name) J.S. Westerdale, Esq., B.Sc.,M.Inst.C.E.,
(Designation) Sanitary Engineer to Government,
(Address). Chepauk, MADRAS.

To The CHIEF ENGINEER,
Public Works Department,
MADRAS.

Sir,



BELLARY WATER SUPPLY SCHEME. 2055 w/P 1924 T.S.G

In continuation of my No.420 G. dated 28th August 1924 I have the honour to request that the design for the engine house may be examined and approved and forwarded to the Executive Engineer for execution as early as possible. It is desirable that the construction of the engine house should be commenced with the least possible delay, so that it will be ready to accommodate the pumping plant by the time the latter is procured and the pumping main ready. If these 3 items of the work, viz: the pumping main, engine house and pumping plant are installed, water can be supplied to Bellary even though the service reservoir and the distribution system may not be ready.

I have the honour to be,
Sir,
Your most obedient servant,

J.S. Westerdale
12-9-24.
Sanitary Engineer to Govt.

DSR/12-9-24).

19/9/24

4

Public Works Department.

Note by the Chief Engineer, P.W.D., No. ~~dated~~ 2055 W4/A/24-2 dated 16th October ~~September~~ 1924:-

In the estimate for Rs.9,51,056 for the Bellary Water Supply Scheme sanctioned in G.O., No. 220 W., dated 22nd February 1924 a sum of Rs.32,600 has been provided for the engine-house. This provision was approved with the remark that a fresh design for the engine house to suit the vertical pumping engines providing suitable concrete foundations for the engines should be prepared by the Sanitary Engineer and submitted to the Chief Engineer for approval before the work is put in hand. Subsequent to the issue of the above G.O., the Sanitary Engineer's proposal to use gas plant in place of steam plant was approved in Chief Engineer's Memo. No. 1281 Wks-A/24 C.P., dated 23rd June 1924.

II. The Sanitary Engineer to Government now submits for approval and sanction a fresh design for the engine house to suit the gas plant and an estimate amounting to Rs.34,000 for the work. The excess of Rs.1,400 over the provision in the sanctioned estimate is due to the inclusion in the present estimate provision for Venturi Meter and meter house which is covered by a separate estimate of Rs.8,697 in the sanctioned estimate.

III. The design and estimate have been examined by the Chief Engineer and the points requiring remarks are dealt with below:-

(1) Particulars regarding the soil and sub soil at the site of the building have not been furnished to see what safe load the subsoil will bear. The Superintending Engineer should, before the work is put in hand, satisfy himself that the pressure on soil is within the permissible limits.

(2) The thickness of the longitudinal walls of the engine chamber should be increased from 1'-0" to 1'-6" as it is not possible to build coursed rubble masonry walls with a thickness

of

of 1 foot.

(3) The longitudinal walls of the engine chamber below basement level need not be built of cement mortar as the pressure at the floor level is within the permissible limits for masonry with lime mortar.

(4) The floor of the building shall be paved with Cuddapah slab 1½" thick on 6" sand pointed with cement instead of with 2" Cuddapah slab over 4" surki concrete and pointed with cement as allowed in the estimate.

(5) The roofing shall be of Mangalore tiles over flat tiles embedded on lime mortar as plain Mangalore tiled roof will be unbearably hot.

(6) The sections of certain roof timbers and of the truss require alterations as noted below:-

Name of members.	Section proposed by the S.E.	Section ~~suggested in T Section~~ required	
Purlin ...	3" x 7"	2½" x 7"	to be fish plated
Ridge ...	3" x 9"	2½" x 9"	-do-
Joist in office room	2½" x 8"	2½" x 6"	
-do- in store room	2" x 7"	2" x 6"	
-do- in verandah	2½" x 8"	2½" x 6"	
-do- in meter house	2" x 7"	2" x 6"	
Principal rafter	T 4" x 4" x ½"	T 3½" x 3½" x 3/8"	
Strut ...	L 1½" x 1½" x ¼"	L 2¼" x 2¼" x 3/8"	
Bottom tie ...	F 2" x ½"	F 2½" x 3/8"	

IV. With the foregoing remarks, the estimate as altered by the Chief Engineer amounting to Rs.33,900 is recommended for sanction.

M.R. Kharegat,
Chief Engineer, P.W.D.
(General, Buildings & Roads)

C.8/10

P.W.D

L.T.F Conf. 2055 Wks/A. From the Sanitary Engr. No 4206 dt 28-8-24.

P.O.L.F " 2197 Wks/A —do— " 4426 dt 13-9-24

Bellary Water-Supply Scheme – Estt Rs 34,000 for Engine-house –

U.S.

I. V Chief Engineers note approved in G.O.No. 220 W dt 22-2-24, the Sanitary Engineer submits an

C.F estimate amounting to Rs 34,000 for the Engine-house required in connection with the Bellary Water-supply scheme.

2. The estimate of Rs 34,000 provides for the installation of a gas plant as approved by the Chief Engineer, P.W.D., and for a venturi meter and meter house, against the provision of

Memo No. 1281 Wks/A/24 dt 23-6-24 file

(1) Rs 32,600 for an engine house & (2) Rs 8697 for venturi meter & meter house in the estimate sanctioned in G.O.No. 220 W dt 22-2-24.

3.6 8 4:97 33,900 = 397 . wp

I. V The design and the estimate have been scrutinized by the Chief Engineer, the amount of the estimate has been reduced to Rs 33,900 and recommended by him for sanction, subject to certain remarks. The estimate may be sanctioned

P. 9 dt 6.1.25 3.1.2

vide para 4 of the Sanitary Engr's letter on p. 2 of papers flag K

3. The Sanitary Engineer has recommended that quarters should be provided for the pumping Station staff at Hagari. The quarters had been omitted from the originally sanctioned estimate in

in order to reduce the Capital Cost of the scheme. The Sanitary is convinced that the quarters are necessary as otherwise it will not be possible to retain any staff. This question has to be considered in the L.S.G. Dept in Consultation with the Municipal Council.

4. A draft order is submitted. It may be forwarded to the L.S.G. (P.H.) and the Finance Dept for acceptance.

5. The work is in progress with a grant in the Current year.

25.9.24

L.S.G. (P.H.)
Finance

D2

through B 7619 reg-funds. LW Cwd 26/9/24

L.D.

P.Secretariat 2055 24.1 3.10.24

TUTICORIN LOCAL BOARD 4 OCT 1924 DEPARTMENT OF ASSISTANT SECRETARY

4795 4/10

Leg. (PH)

The draft order may be accepted and the file passed on to Finance no.

2. The question regarding provision of quarters for the pumping station staff may be considered on receipt of a copy of the order and notes in this case.

P.W.D. no 7.10.24 (through I.F. 22 cc)

1.10.24

4.10.24

L.S. dpt. No 27892-1.P1 24

7 OCT 1924

Fc 3788 8/X/24

Finance (Exp)

Bellary waterworks — Estimate for the Engine house, for Venturi meter and meter house

(L)

(i) Original estimate as sanctioned in G.O. No 220W dated 22-2-24 (Rs 32,600 + Rs 8,697) ₹ 41,297

Para 11 on page 5 of c.f (ii) Revised estimate under consideration ₹ 33,900

(iii) Decrease in the revised estimate ₹ 7,397

Para 2 of page 4 of c.f The decrease of Rs 7,397/- is due to the substitution of gas plant for the steam plant provided for in the original estimate.

2. The draft order may be accepted.

9.X.24

9.10.24.

10.X.24

P.W.D No

Fin No 3788 Exp-4 — 11.10.24

FINANCE SECTION
1300-1-4
CURRENT NUMBER
2447

P.W.D

RS

The file may now be circulated to M2 for approval of the draft.

2. Funds are available and the work is in progress.

13.10.24.

13/10/24

13/10/24

13/10/24

M2

17/10/24

Issue 18/10/24

18/10/24

17/10.

S1

d from circulation on 17/10/24

3+3

Scott II-10 (a)—16,002—6-2-23. (6)

	Date.	Initials.
When received for Fair-copying.		
When copied		
When examined		
When signed		
When despatched		

X/7 P.W. DEPARTMENT.

READ AGAIN G.O. No. 220 W, dated 22 - 2 - 1924.

" " " " — " — 192

READ ALSO;—

pb 1-2 G.O. No. 2055 W/A/P From the Sanitary Engr. to Govt, No. 420 G, dated 28 : 8 : 1924

1b 3 CF Q " " 2197 W/A " " — Do — " 442 G " 13 · 9 · 1924

pp 4-5 CF P " " " Note by the Chief Engr. PWD No 2855 W/A/24-2 " 16 - 10 - 1924

ORDER.
Mio.

No. 1195 W dated 20 · 10 · 1924

The estimate amounting as alte
by the Chief Engineer, PWD, to Rs 33900
the engine-house and venturi
meter and meter house requir
in connection with the Bellary
Water-Supply scheme is sanc
subject to the remarks of the
Chief Engineer in his note read
above, and in supersession of
the provision made for the purpo
in the estimate for the scher
sanctioned in G.O. No 220 W & 21-2-

(BOGM)

DESPATCHED
23OCT 1924

To the S.E. Madras Circle with a plan & abstract (SAN 64/24)
" Sanitary Engr to Govt
" A.G. Madras through Finance
" L.S.G. Dept with a copy of note.
" Finance Dept

FD.

I
25.9.24

for S

Sectt. II–47—697 Bks.—24-1-18 (5).

A. / B. / N.P. } (a)

P.I.) DEPARTMENT.

ORDINARY / ROUTINE SERIES.

CIRCULATED. / NOT CIRCULATED. / NOT SEEN BY C.S.

† G.O. No. , dated 191 .

Receipt numbers ..	21771 2447/24
Number and date of previous proceedings.	

Tabling Abstract.

(b) **Index Headings.**

MAIN HEADING

CROSS REFERENCES.

SPECIAL INDEX

NOT SPECIAL INDEX

(a) and (b) not to be filled up for Routine cases

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